SMITH MOUNTAIN PROJECT NO. 2210 APPLICATION FOR NEW LICENSE

PRESENTATION

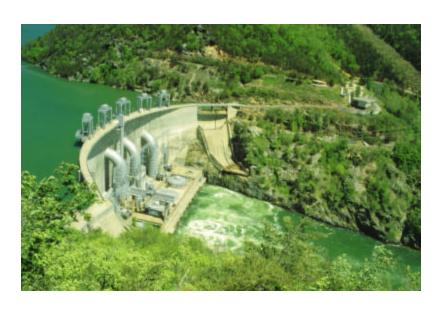
TO

ROANOKE RIVER BASIN

ADVISORY COMMITTEE

April 25, 2006

SMITH MOUNTAIN PROJECT NO. 2210 SMITH MOUNTAIN DEVELOPMENT



Smith Mountain Reservoir

Smith Mountain Dam

Length816 feet
Height235 feet
Type......Double curvature concrete arch
Volume of concrete.. 175,000 cubic yards
Year Completed..... 1964

Smith Mountain Powerhouse

Number of generating units.....5
Capacity
Units 1 and 5..... 66 megawatts each
Units 2 and 4 ...174 megawatts each
Unit 3106 megawatts

SMITH MOUNTAIN PROJECT NO. 2210 LEESVILLE DEVELOPMENT



Leesville Reservoir

Length 17 miles Shoreline 100 miles

Water storage 94,960 acre feet

Surface area 3000 acres

Normal operating range..... 600 feet to 613 feet

N.G.V.D.

Leesville Dam

Length980 feet Height90 feet

Type.....Concrete gravity

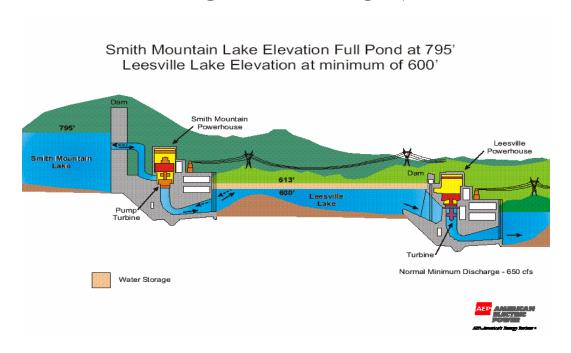
Volume of concrete.... 100,000 cubic yards

Year Complete 1963

Leesville Powerhouse

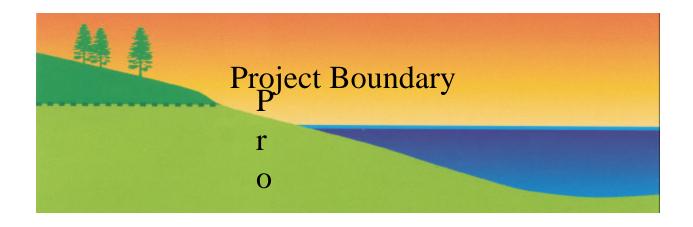
Number of generating units.....2 Capacity......25 megawatts each

SMITH MOUNTAIN PROJECT NO. 2210 OPERATION



- Smith Mountain Reservoir can fluctuate up to 2 ft. under normal operations.
- Leesville Reservoir can fluctuate up to 13 ft. as part of the generate/pump cycle for the Smith Mountain Development.

SMITH MOUNTAIN PROJECT NO. 2210 PROJECT BOUNDARIES



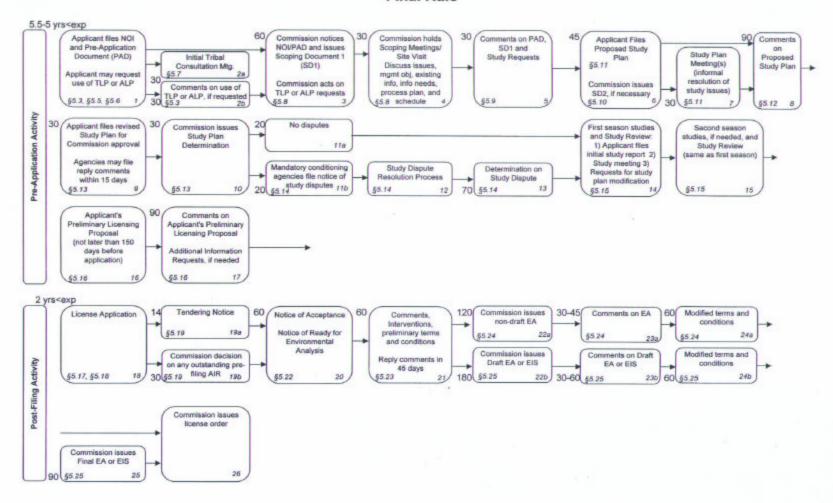
• Smith Mountain: Normal Full Pond Level = 795 ft. NGVD

Project Boundary @ Elev. 800 ft. NGVD

• Leesville: Normal Water Level = 613 ft. NGVD

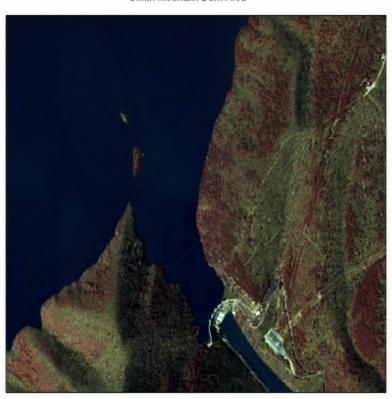
Project Boundary @ Elev. 620 ft. NGVD

Integrated Licensing Process Final Rule



ACTIVITIES ACCOMPLISHED THROUGH MARCH 2006

Smith Mountain Dam Area



- Notice of Intent and Pre-Application Document Filed -10/25/2004
- Scoping Document No. 1 Issued 12/27/2004
- Public Scoping Meeting Held –
 1/26 & 1/27, 2005
- Initial Study Plans Filed 3/15/2005
- Scoping Document No. 2 Issued 4/20/2005
- Initial Work Groups Meetings –
 6/21/2005 thru 7/8/2005

ACTIVITIES ACCOMPLISHED THROUGH MARCH 2006 (cont'd)

Hales Ford Bridge Area



- Public Study Plans Meeting 5/12
 & 5/13, 2005
- Revised Study Plans Filed 8/11/2005
- Study Plan Determination Issued 9/9/2005
- Work Groups Meetings 1/11/2006 thru 3/2/2006
- Study Plans Update Meeting No. 1
 March 29 & 30, 2006

STUDIES

- Instream Flow Needs
- Roanoke Logperch
- Erosion
- Sedimentation
- Socioeconomics
- Native & Exotic Aquatic Vegetation
- Recreation Assessment
- Angler Use Survey
- Drought & Flood Management
- Water Withdrawals
- Water Quality
- Fish Entrainment & Impingement
- Debris
- Navigational Aids
- Archaeological and Historic Resources
- Littoral Habitat and Fish Rearing



WORK GROUPS MEETINGS

•	Navigational	Aids
---	--------------	------

Erosion

• Sedimentation

• Recreation Assessment

Socioeconomics

Debris

• Native and Exotic Aquatic Vegetation

• Instream Flow Needs

Water Quality

• Fish Entrainment & Impingement

Roanoke Logperch

• Angler Use Survey

• Drought and Flood Management

• Water Withdrawals

Littoral Habitat and Fish Rearing

• Historic & Archaeological Resources

June 21, 2005

June 24, 2005 & January 26, 2006

June 24, 2005 & January 26, 2006

June 28, 2005 & February 23, 2006

June 28, 2005 & January 20, 2006

July 5, 2005

July 5, 2005 & February 16, 2006

July 6, 2005 & January 11, 2006

July 7, 2005

July 7, 2005

July 8, 2005 & January 11, 2006

July 8, 2005 & February 23, 2006

July 6, 2005 & March 2, 2006

July 6, 2005 & March 2, 2006

February 16, 2006

None

CONSULTANTS

Devine Tarbell & Associates: Roanoke Logperch

Native & Exotic Aquatic Vegetation

Littoral Habitat & Fish Rearing

• The Louis Berger Group: Instream Flow Needs

Socioeconomics

Historic & Archaeological Resources

Recreation Assessment

Angler Use Survey

Kleinschmidt Associates: Erosion

Sedimentation Water Quality

• <u>HydroLogics:</u> Drought & Flood Management

Water Withdrawals

• Normandeau: Fish Entrainment & Impingement

• Appalachian Power Company: Navigational Aids

Debris

FUTURE ACTIVITIES



•	First Season of Studies:	3/1 thru 12/31/2006
•	Initial Study Report:	9/12/2006
•	Initial Study Report Meeting:	9/27/2006
•	Second Study Report & NOI to File Draft Application: (If selected by Applicant)	9/12/2007
•	Updated Study Report Meeting	9/27/2007
•	File Preliminary Draft Application or License Proposal	11/2/2007
•	File for 401 Certification	11/2/2007
•	File Application for New License	3/31/2008

SMITH MOUNTAIN PROJECT NO. 2210 RELICENSING WEB SITE

http://www.smithmtn.com

